

# Patent Abstracts of Japan

( A )

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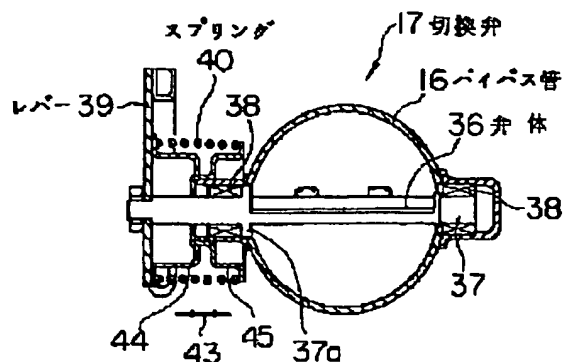
APPLICATION DATE : 24-09-93  
APPLICATION NUMBER : 05258913

APPLICANT : MITSUBISHI MOTORS CORP;

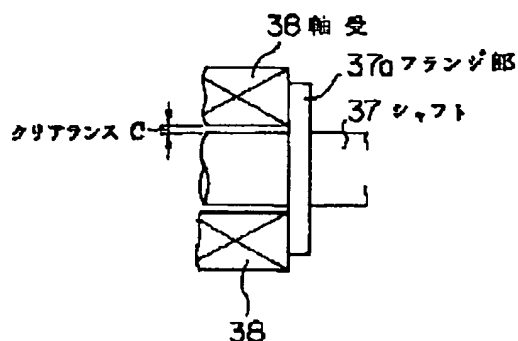
INVENTOR : NAKAJIMA TATSURO;

INT.CL. : F01N 7/08 F01N 1/02

TITLE : BUTTERFLY VALVE IN DUAL MODE  
MUFFLER



( B )



ABSTRACT : PURPOSE: To prevent exhaust gas from leaking through a clearance between a lever side bearing and a shaft, and to prevent a foreign object from entering the lever side bearing part.

CONSTITUTION: A flange part 37a formed on a shaft 27 is positively pressed against the side surface of a bearing 38 under the load of a spring 40. The flange part 37a is blocked a clearance C so as to prevent exhaust gas from leaking. Further, the shaft 37 projected oh the lever 39 side is covered with a movable spring guide 44 and a stationary spring guide 45 in a range in which the operation of the valve is not affected, and it is possible to prevent foreign object from entering the bearing 38.

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